

ABSTRACT

The invention relates to the use of signal processing methods in order to achieve higher signal to noise ratios, to increase the detection limits of target analytes. These techniques include the monitoring of the output signal at higher harmonic frequencies.

1. A method for detecting a target analyte in a sample, comprising the steps of: (a) providing a sample; (b) providing a signal processing method; (c) monitoring the output signal at higher harmonic frequencies; and (d) detecting the target analyte in the sample.